



676995 Lot: 804805

Josamycin

1. General Information

Formula C42H69NO15 Expiry Date 01 Sep 2026

Mol. Weight 827.99 g/mol Store at 4°C (in the dark)

CAS-No. 16846-24-5

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 92.36 % (g/g) Expanded Uncertainty 2.00 % (g/g)

Assay Purity (HPLC) 92.36 % (g/g) Uncertainty 1.00 % (g/g)

Certified on 25 Aug 2021

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity\*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be quaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of certified reference materials.



## **HPLC-Method**

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Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

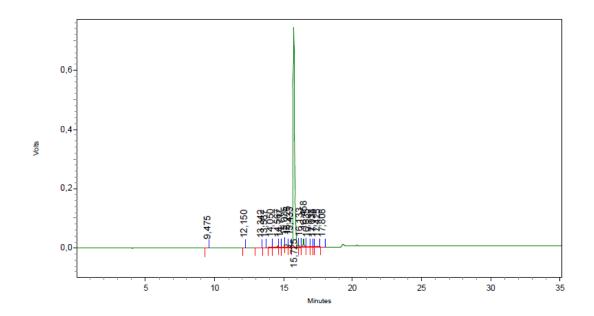
Gradient time %A %B
0min 0 100
23.5min 90 10

22.5min 90 10 25min 90 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 µl

Sample 1.0 mg ml-1 (Acetonitrile)





Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
9,475	189	1404	0,02
12,150	263	1565	0,02
13,342	117	3049	0,04
13,567	139	843	0,01
14,050	2252	19832	0,28
14,567	3703	30846	0,43
14,717	2607	17014	0,24
15,075	7734	52373	0,73
15,225	10837	92184	1,29
15,433	7063	52173	0,73
15,725	740563	6591581	92,37
16,133	3630	33398	0,47
16,458	27322	184116	2,58
16,633	1932	20599	0,29
17,033	918	6862	0,10
17,175	568	3965	0,06
17,425	1806	19398	0,27
17,808	764	4960	0,07
Totals			
	812407	7136162	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
3.0	676995	804805	Format update	25 Aug 2021